

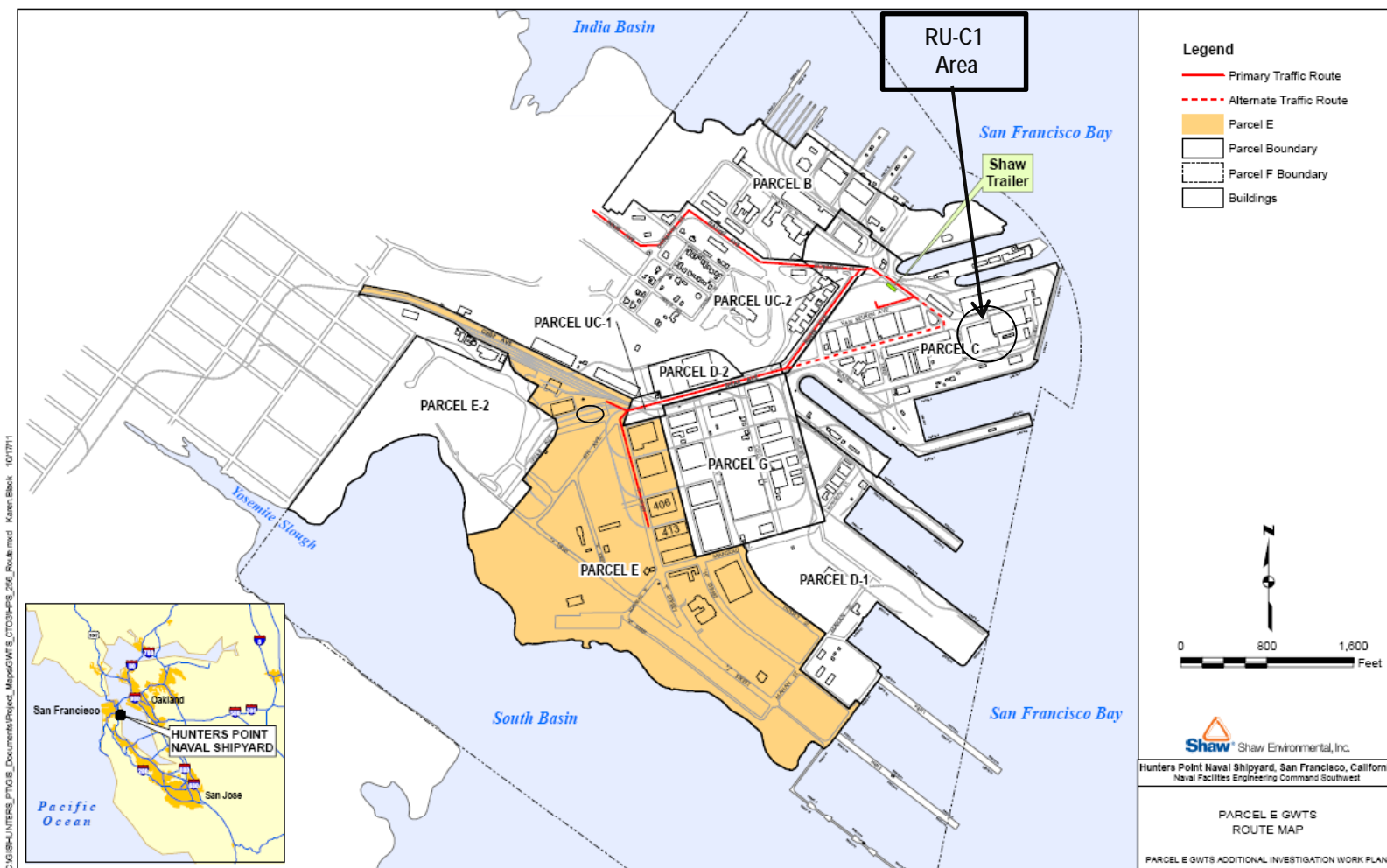


Groundwater Update Groundwater Trends for RU-C1 Groundwater Treatability Study (GWTS)

**Hunters Point Naval Shipyard
BCT Meeting
July 25, 2013**

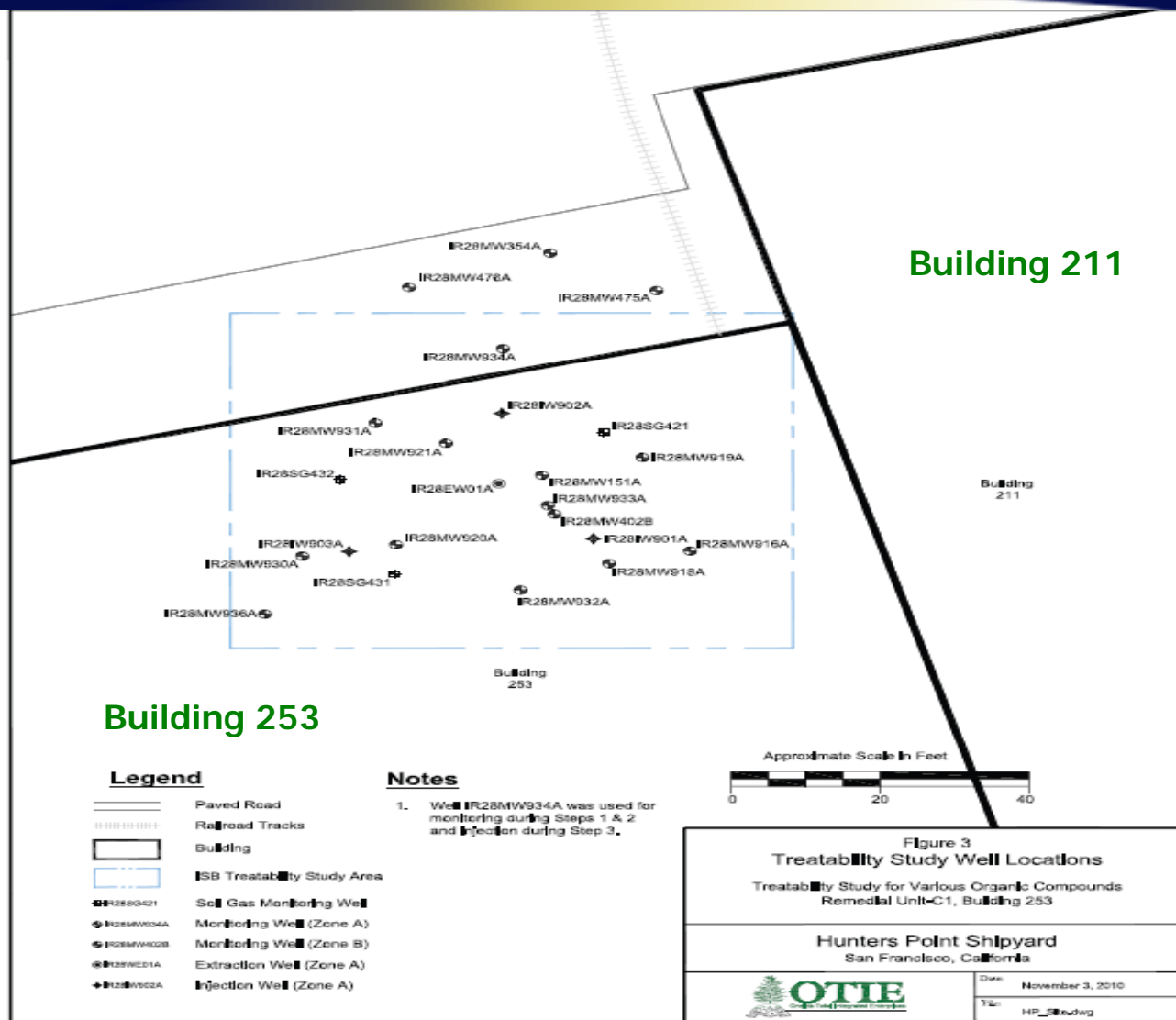


RU-C1 Area





RU-C1 Test/Observation Well Locations





Overview



- **This presentation discusses VOC concentration trends on the GWTS wells sampled by the BGMP and provides recommendations for future monitoring**
- Completed the original scope of the GWTS in Parcel C/RU-C1
 - Anaerobic bioremediation study at Building 253 completed from June 2009 to June 2010
 - IR28 technical report was submitted in January 2011
 - GWTS performance monitoring conducted for 10 to 12 sampling events on the following wells: IR28EW01A, IR28IW901A, IR28IW902A, IR28IW903A, IR28MW354A, IR28MW475A, IR28MW476A, IR28MW916A, IR28MW919A, IR28MW920A, IR28MW921A, IR28MW931A, IR28MW932A, IR28MW933A, IR28MW934A, and IR28MW936A



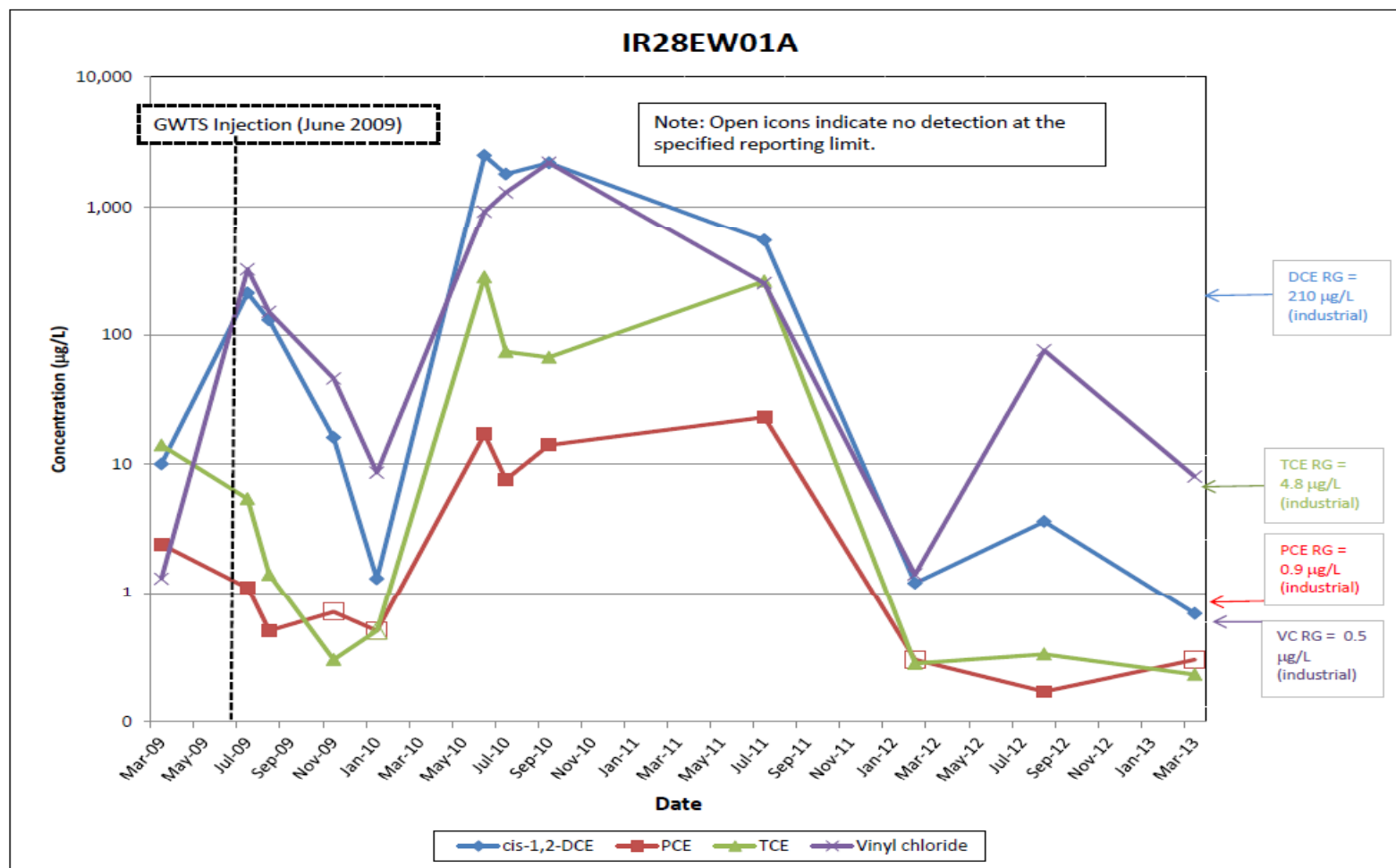
Overview (Con't)



- With the exception of Wells IR28MW475A, IR28MW931A and IR28MW932A, VOC time series trend plots from the wells generally show declining or stable concentration trends resulting from the GWTS
- These wells are scheduled for sampling beginning July 29, 2013

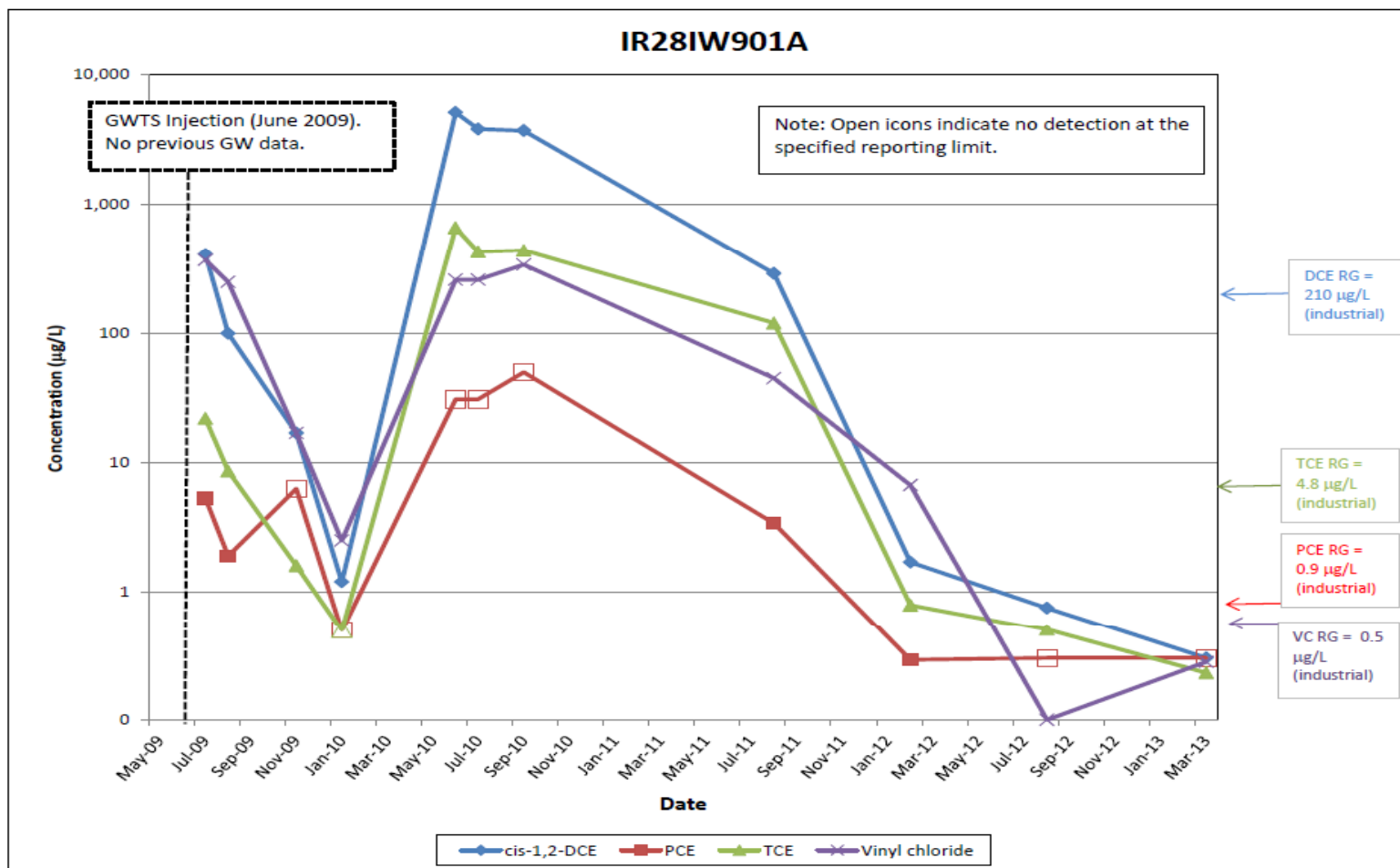


VOC Concentration Trends in RU-C1 Wells



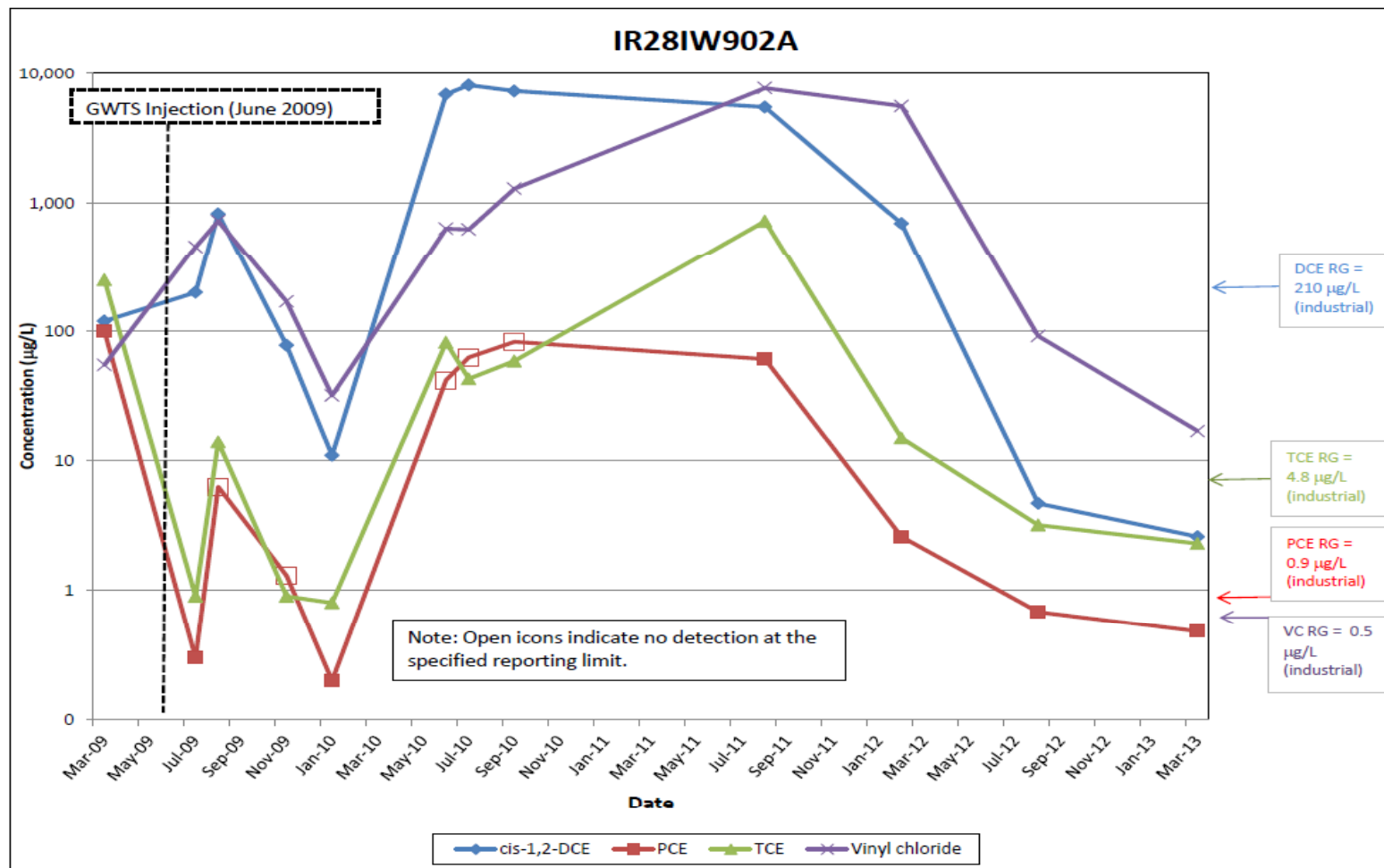


VOC Concentration Trends in RU-C1 Wells



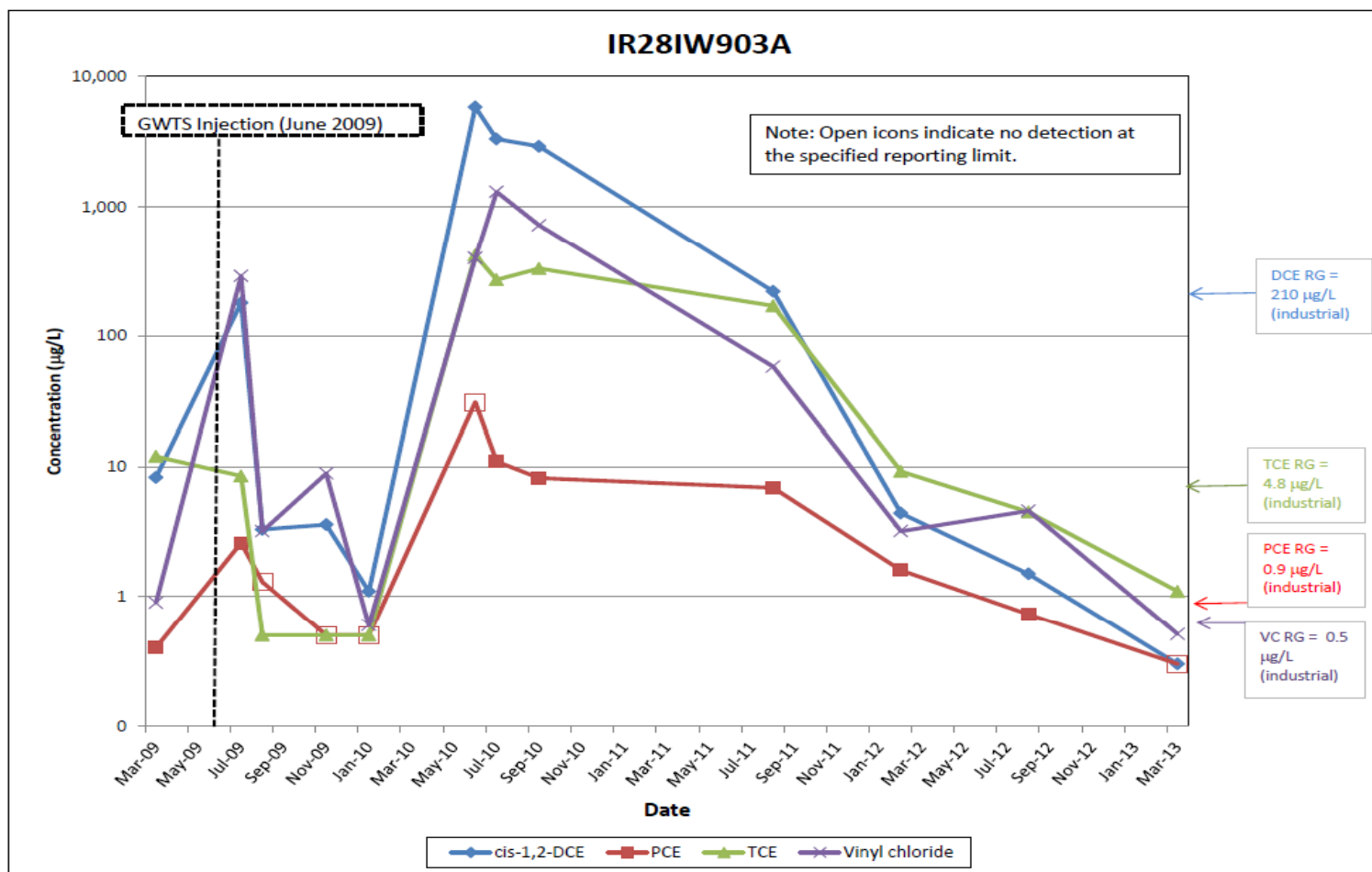


VOC Concentration Trends in RU-C1 Wells



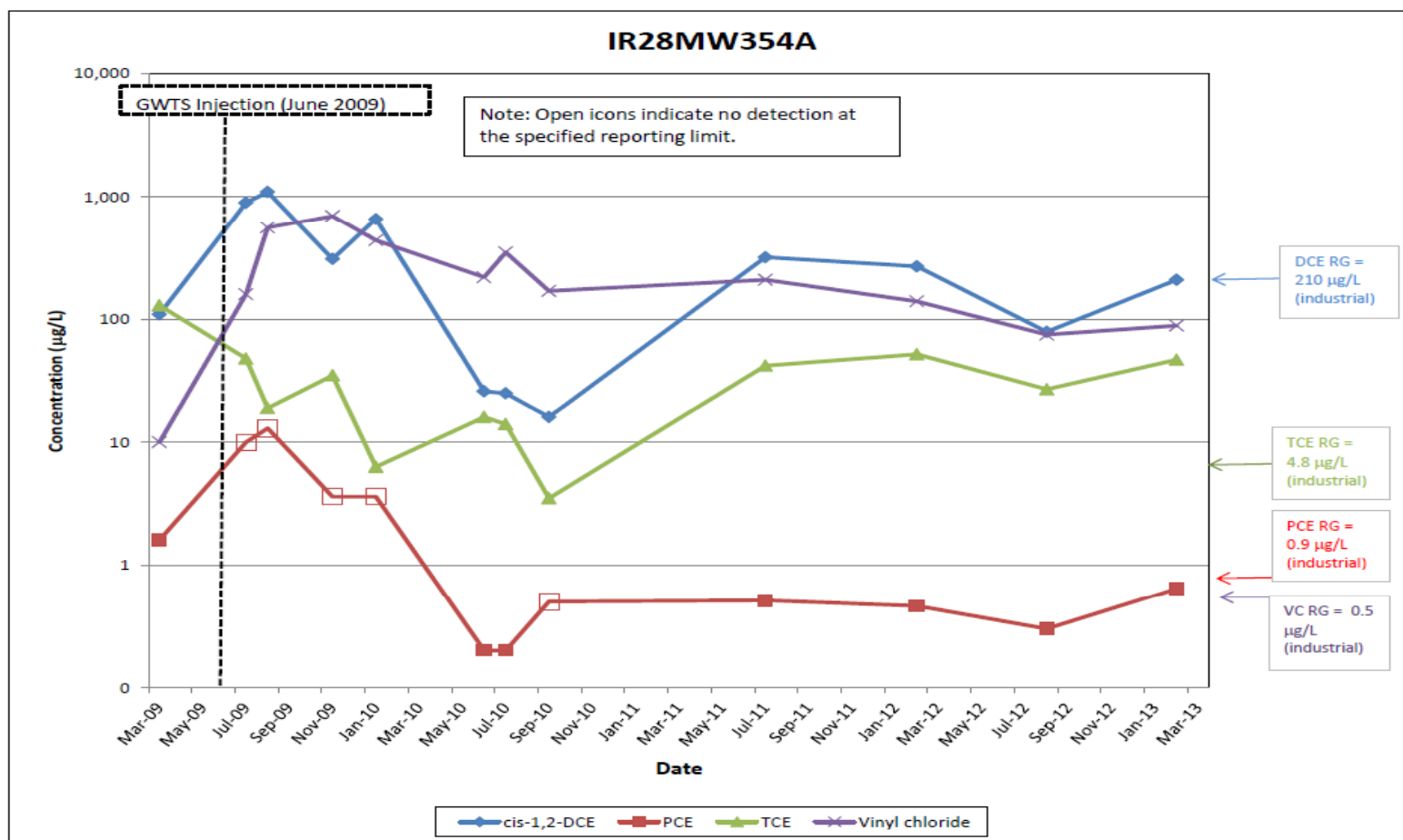


VOC Concentration Trends in RU-C1 Wells



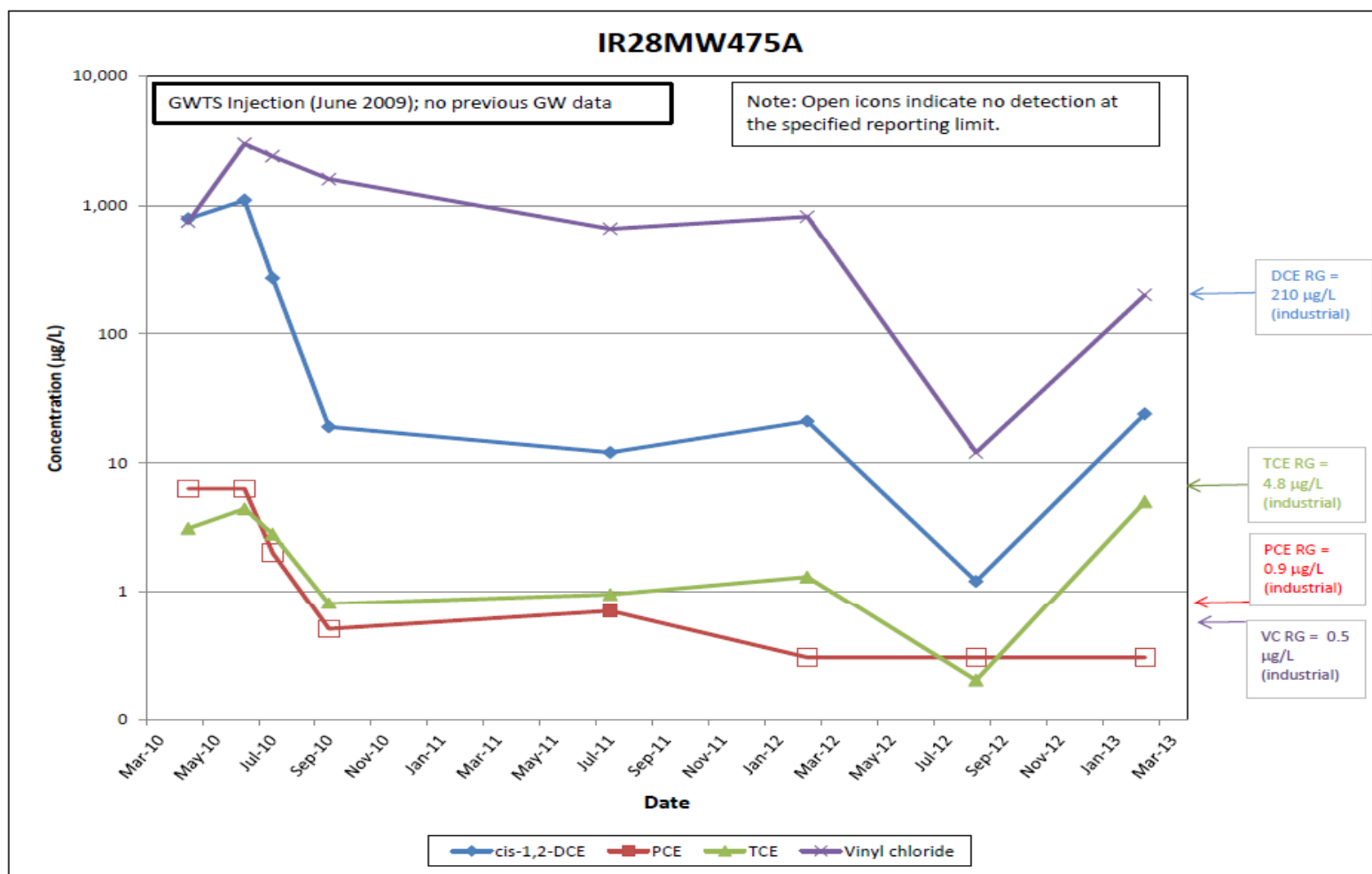


VOC Concentration Trends in RU-C1 Wells



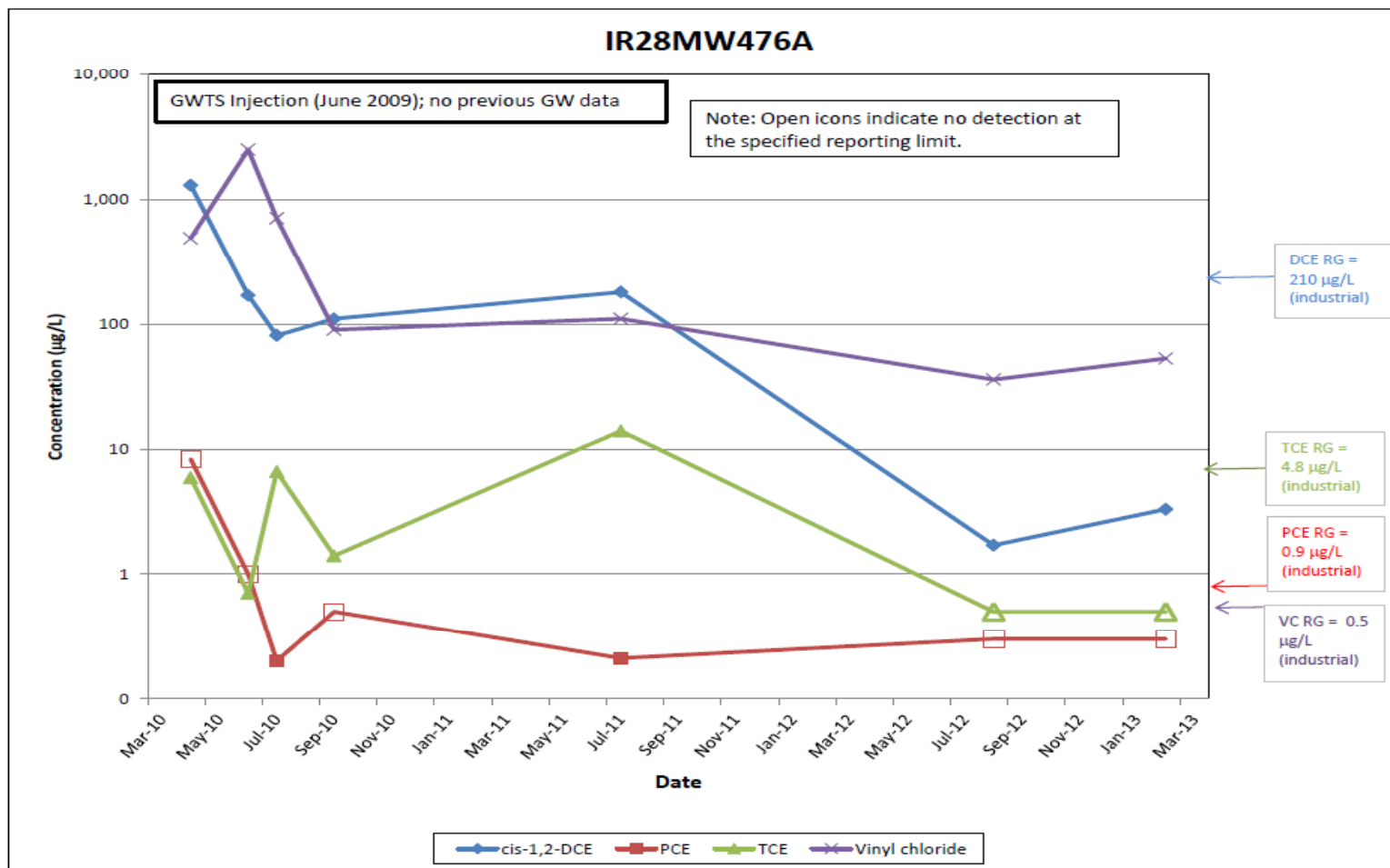


VOC Concentration Trends in RU-C1 Wells



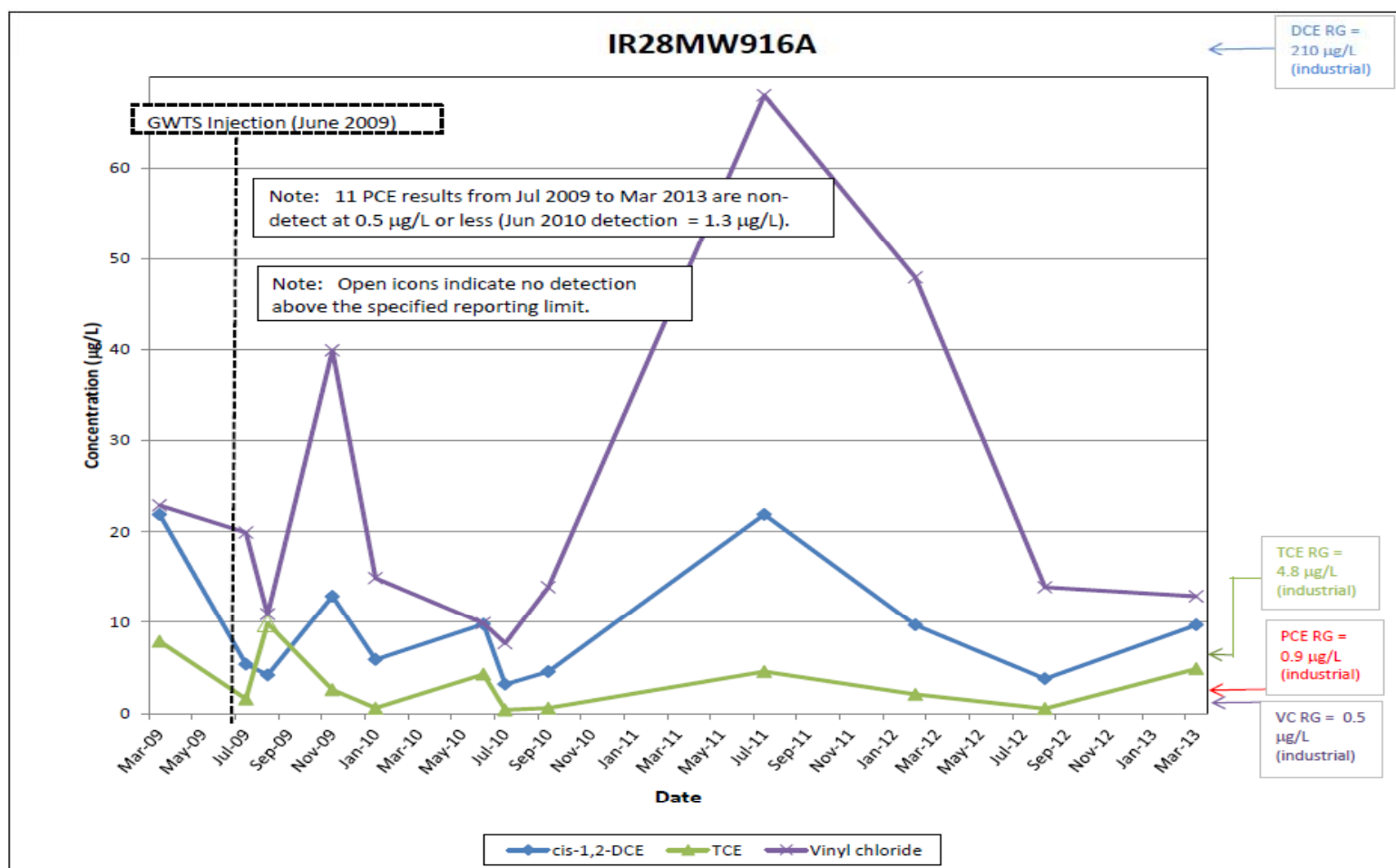


VOC Concentration Trends in RU-C1 Wells



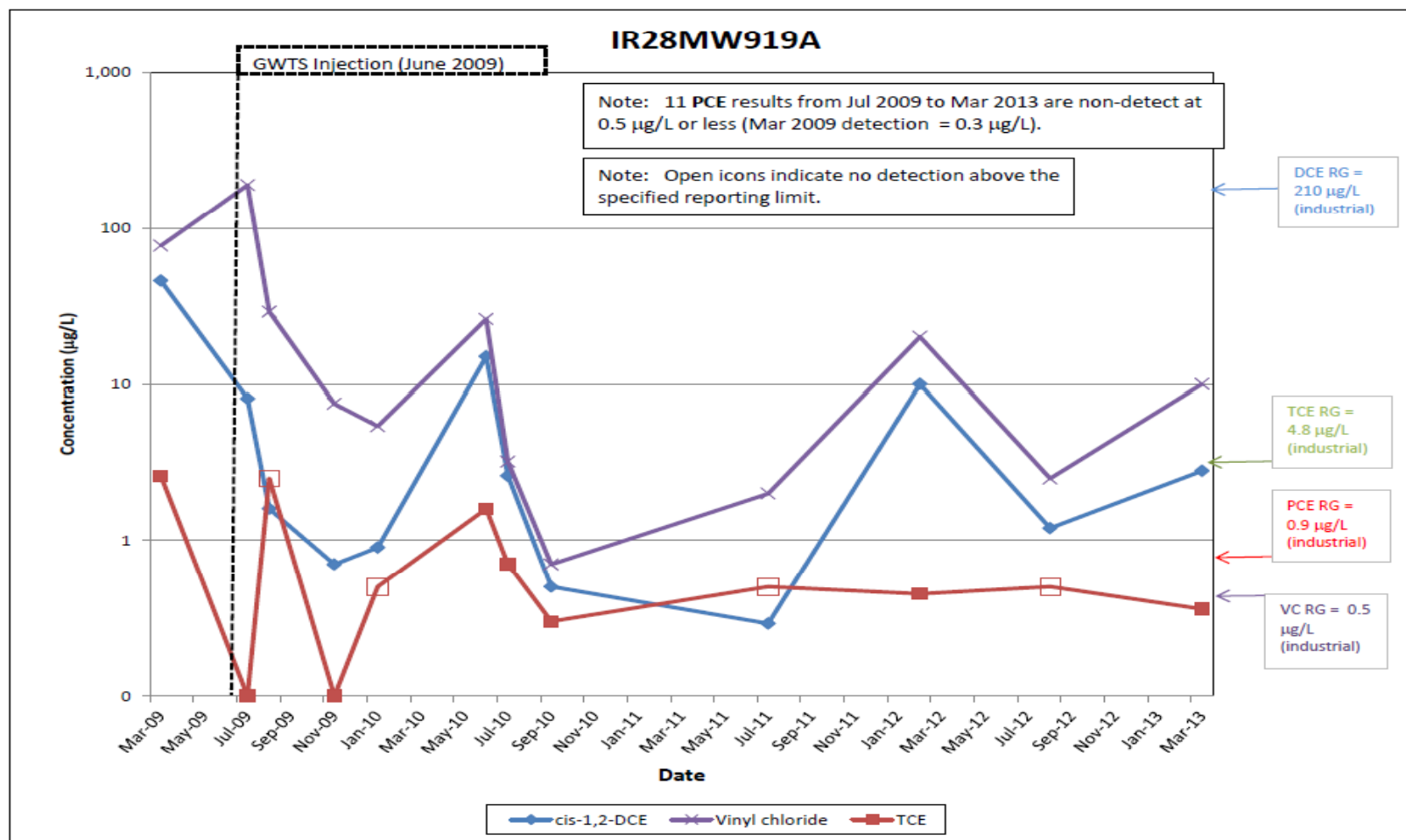


VOC Concentration Trends in RU-C1 Wells



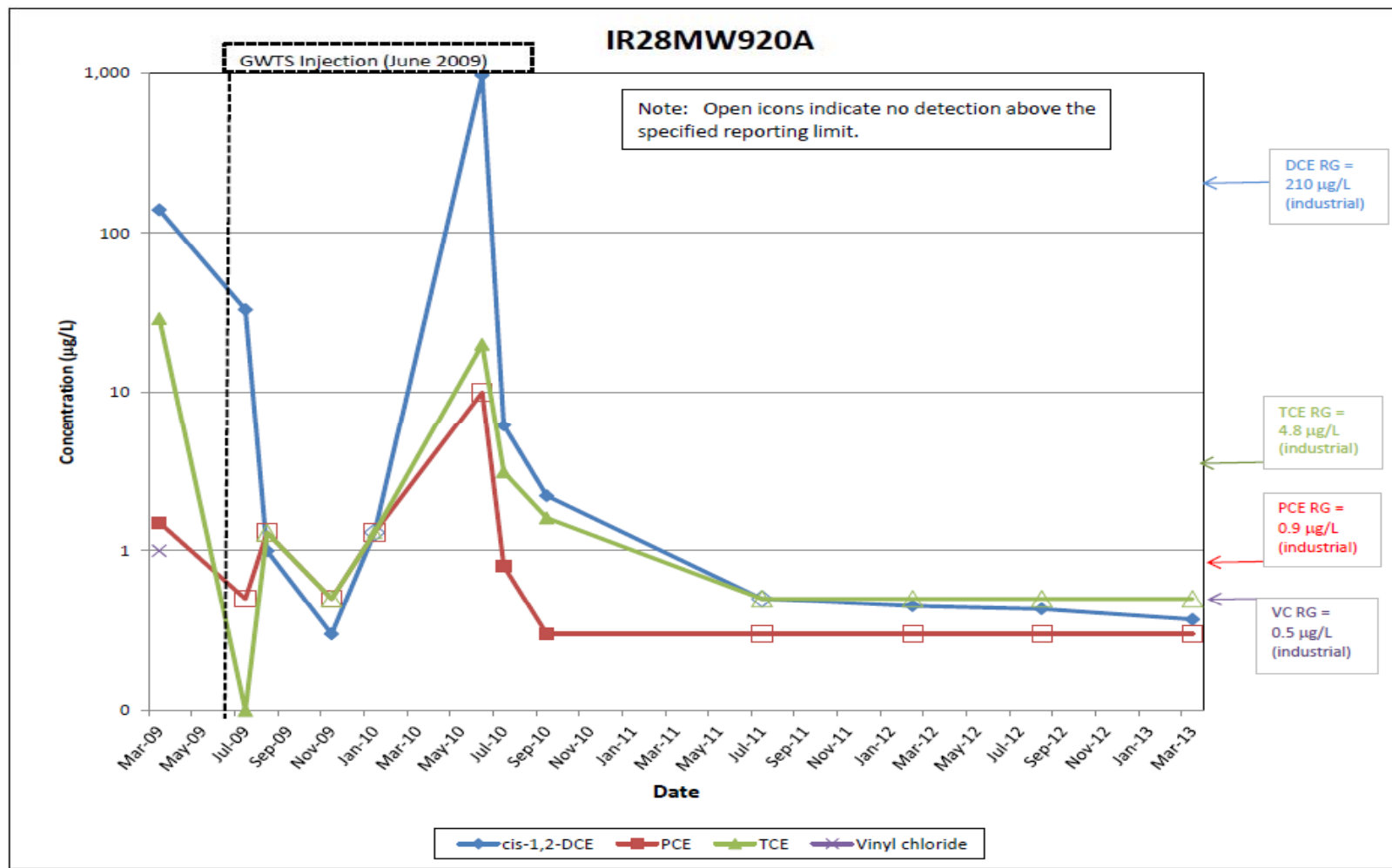


VOC Concentration Trends in RU-C1 Wells



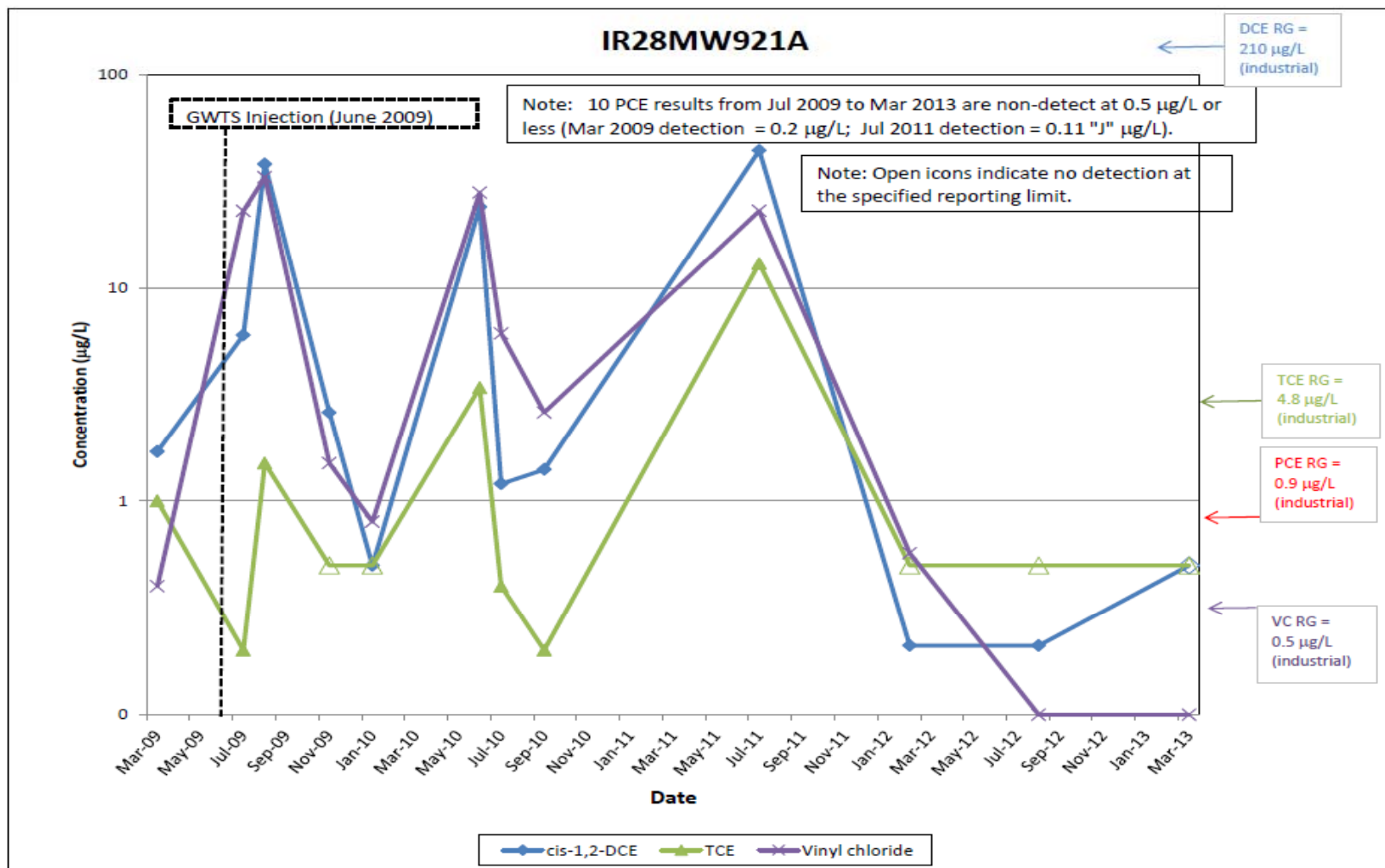


VOC Concentration Trends in RU-C1 Wells



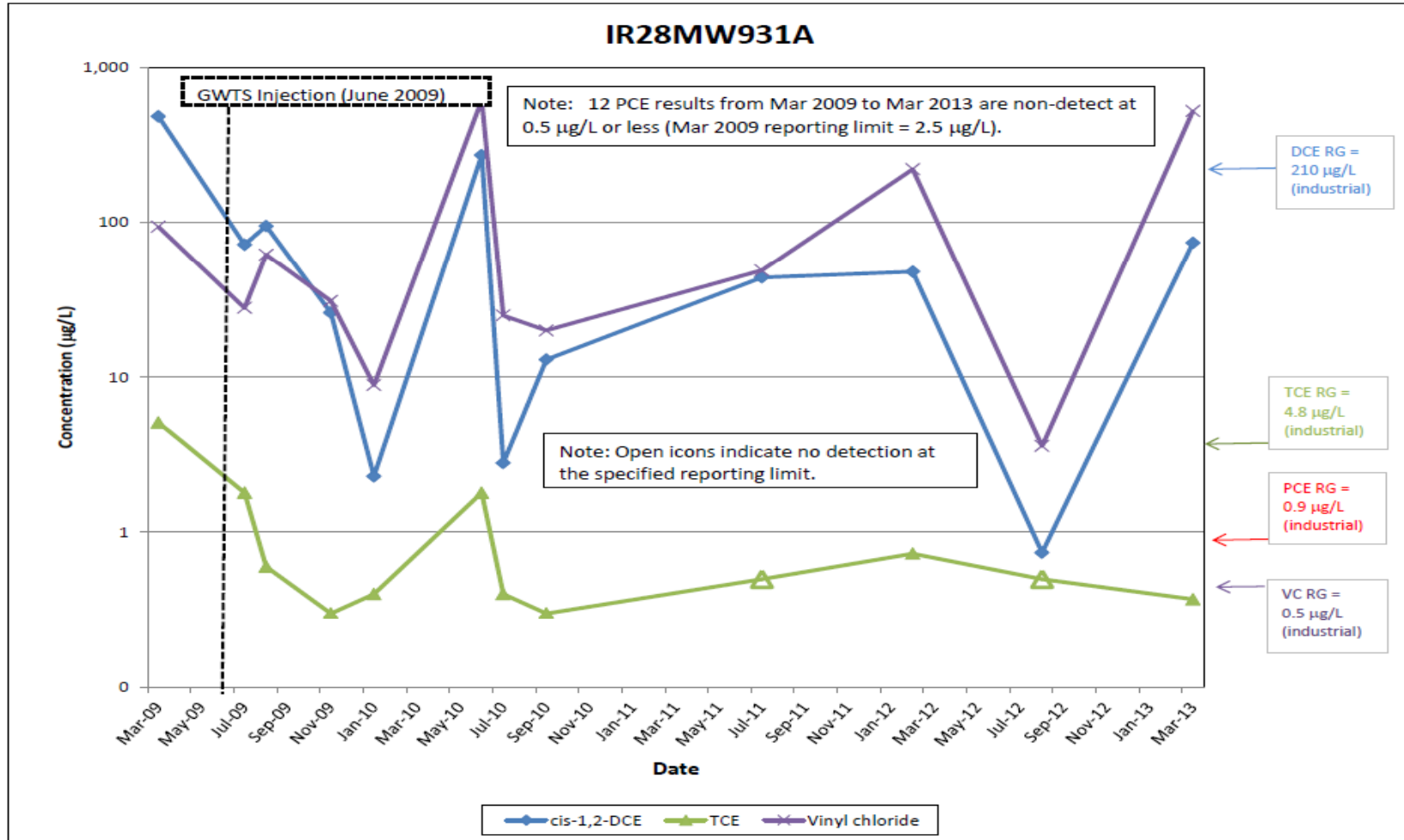


VOC Concentration Trends in RU-C1 Wells



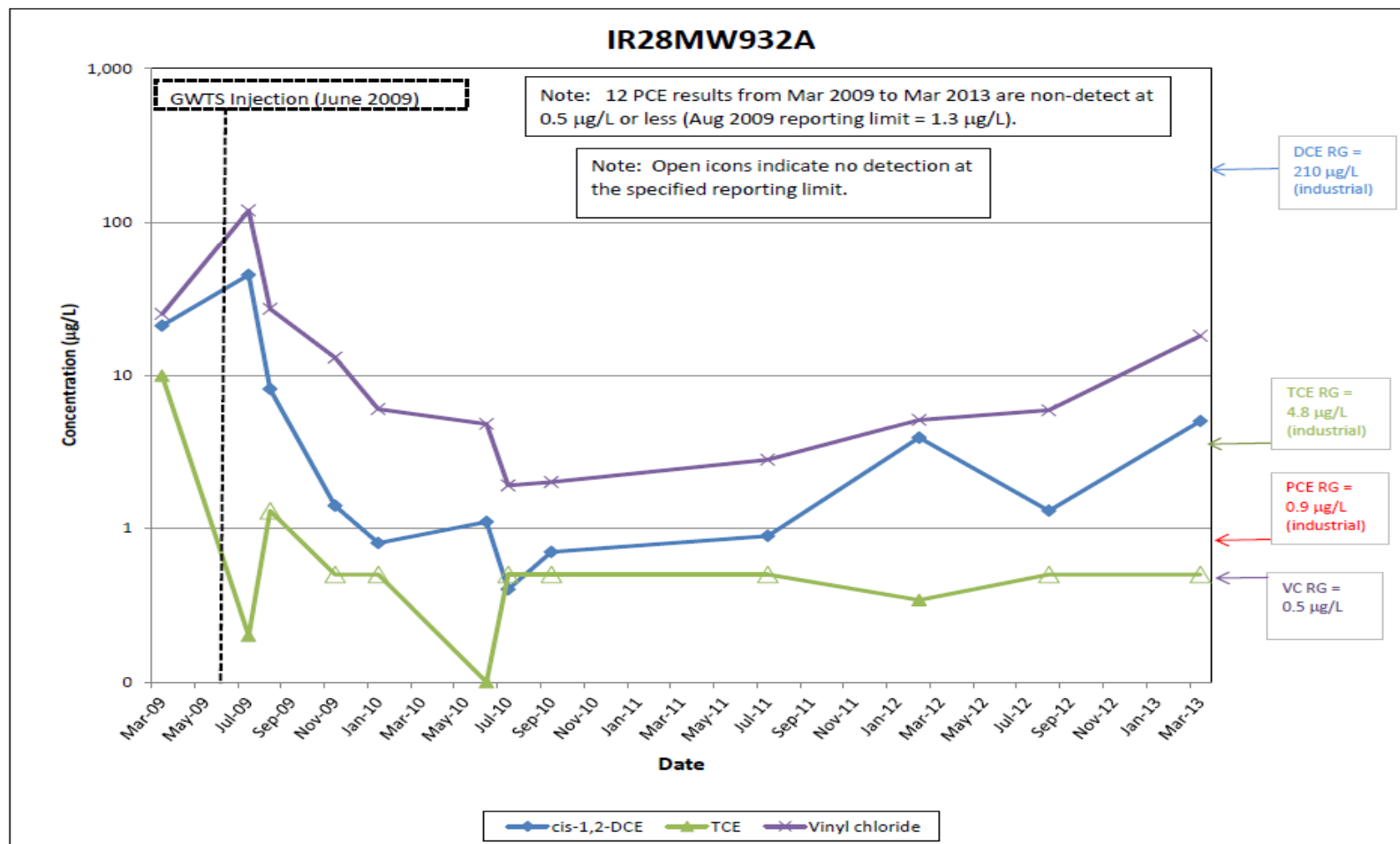


VOC Concentration Trends in RU-C1 Wells



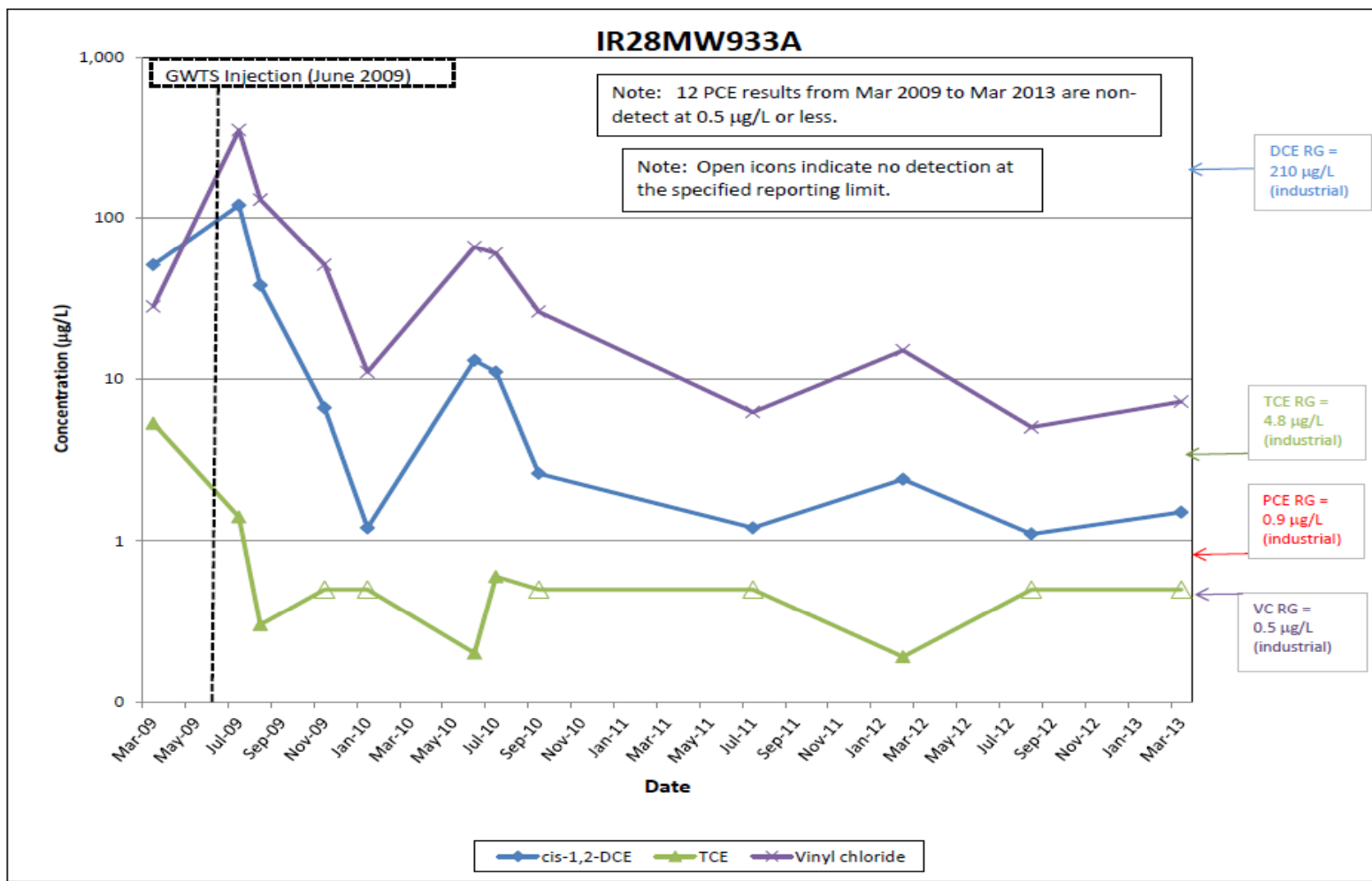


VOC Concentration Trends in RU-C1 Wells



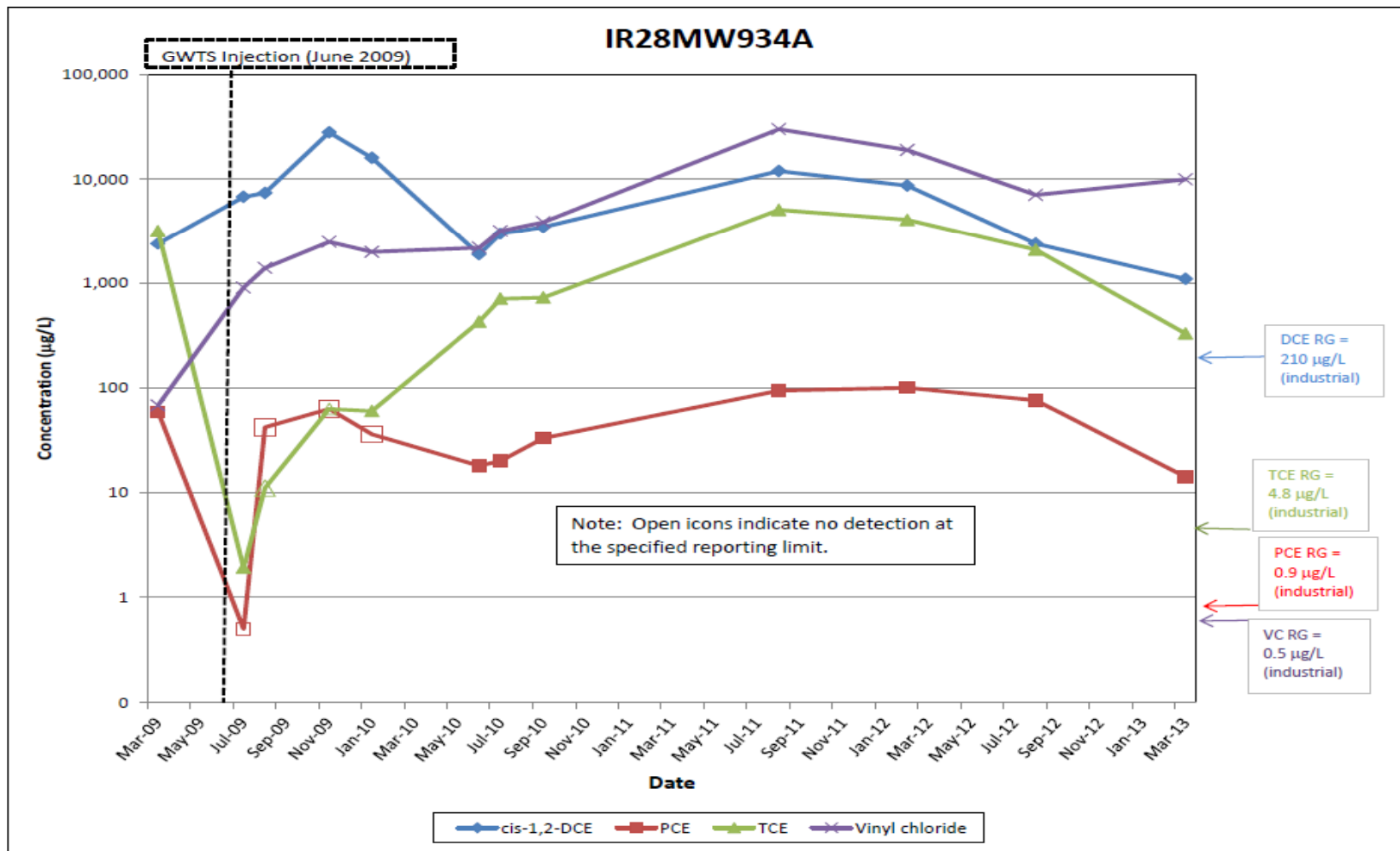


VOC Concentration Trends in RU-C1 Wells



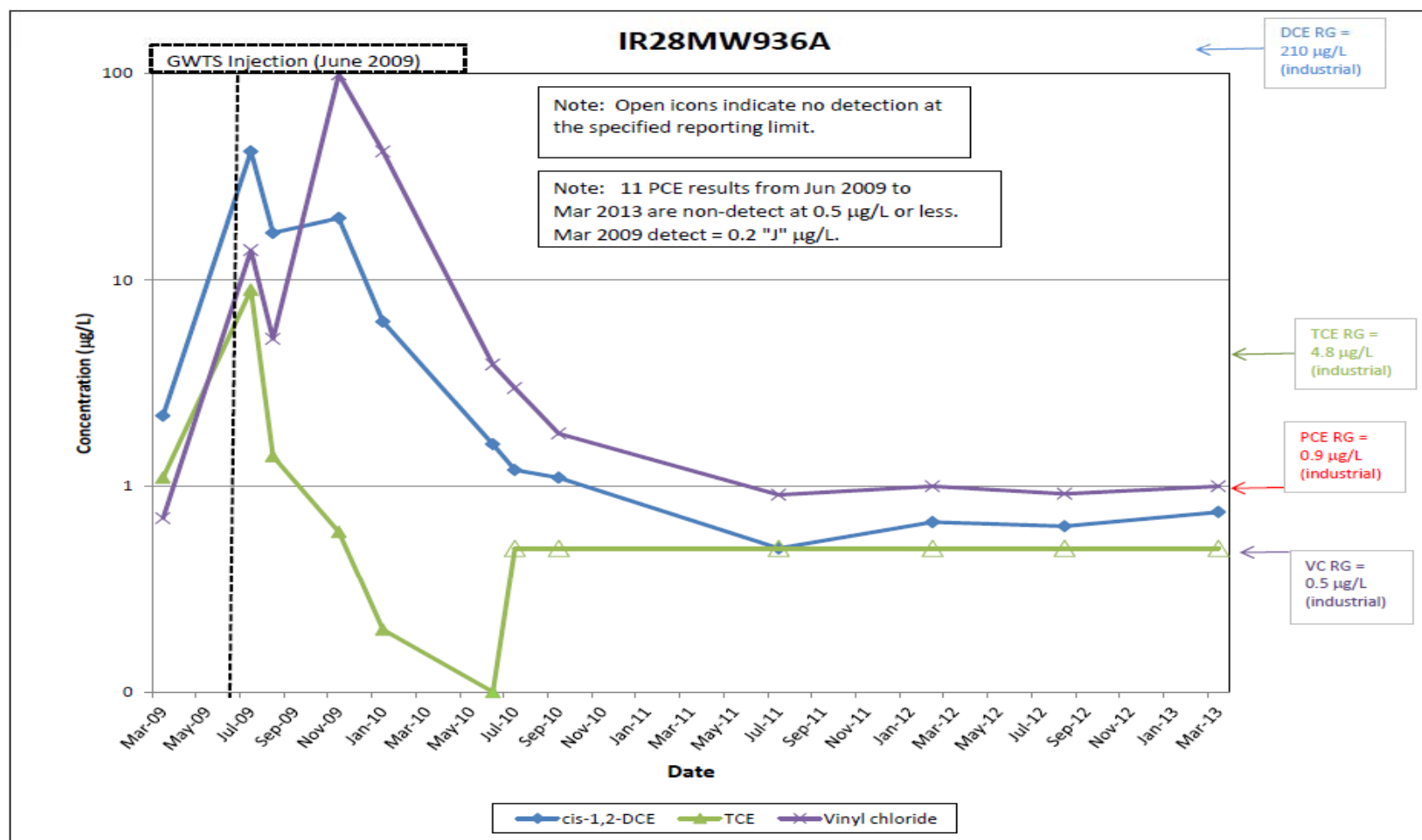


VOC Concentration Trends in RU-C1 Wells





VOC Concentration Trends in RU-C1 Wells





RU-C1 Well Recommendations



- Discontinue sampling GWTS Wells IR28EW01A, IR28IW901A, IR28IW902A, IR28IW903A, IR28MW354A, IR28MW476A, IR28MW916A, IR28MW919A, IR28MW920A, IR28MW921A, IR28MW933A, and IR28MW936A.
- Continue monitoring IR28MW934A (high concentrations), IR28MW475A and IR28MW931A (increasing trends)
- RU-C1 remedy implementation (ZVI and bioaugmentation) will be carried out in September-October 2013.
- Wells IR28MW354A and IR28MW916A will be sampled under the remediation contract as part of performance monitoring along several other wells in RU-C1.